CEC® 912 Gray Scale Printer

CEC DIVISION

BELL & HOWELL

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The CEC 912 Gray Scale Printer System is a self-contained, portable instrument which, through appropriate interface, is compatible with a variety of imagery data sources.

The system is capable of producing high resolution imagery with 16 "true" levels of gray. Prints are produced by the electrosensitive method, which is a single-step process requiring no heat, chemicals, or toners to result in a ready-to-use, archival, hard copy print. Picture element (pixel) resolution is a constant 200 lines per inch, both vertically and horizontally, regardless of the gray level being printed. Print width is a maximum of 10.1 inches (2048 pixels) on an 11 inch by 350 foot roll of recording paper. Maximum printing rate in "picture mode" is approximately two feet per minute (0.4 inch/sec), and double this rate when operating in a 7 x 9 matrix "character" mode.

Four components comprise the system: the printer/transport mechanism, power supplies, data controller, and local test and control panel. All components are housed in a portable case designed for table-top use. Suitable mounting provisions will allow vertical rack mounting in standard 19-inch RETMA racks or cabinets.

The local test and control panel allows the operator to test the print quality, adjust the nominal gray level reference, adjust horizontal scan speed, "wag," of the writing assembly, and manually advance the paper through the transport.

Interface Requirements

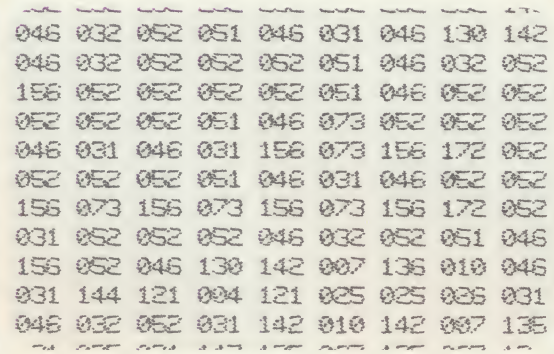
Digital	An 8-bit parallel data source, with appropriate strobe lines is required for picture or character printing. The CEC 912 supplies status signals to complete the source/printer handshake.
Video	A video interface, compatible with 525 line, RS170 video is available as an optional accessory (convertible to 625 line).
Analog	Analog data sources can be unique and varied. For this reason, we request that you call our Pasadena, California facilities to discuss your specific analog application.

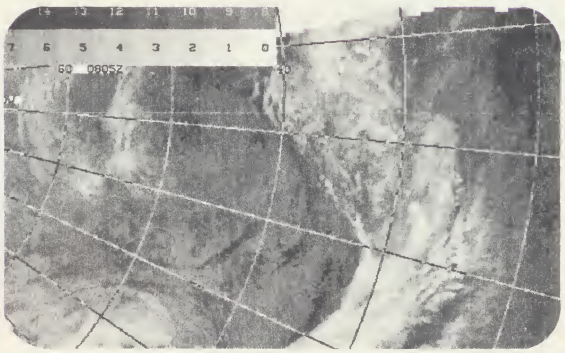
Applications

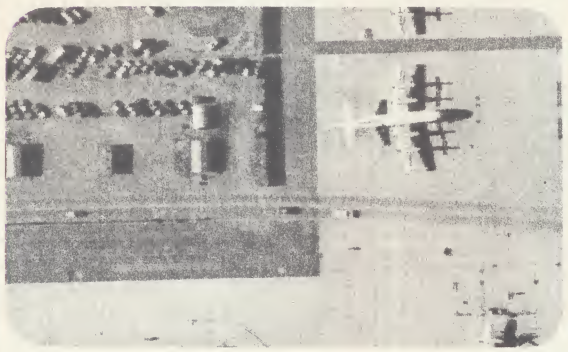
The following are only a few of the many varied imagery applications in which the CEC 912 Gray Scale Printer may be employed.

Oceanography	Sonar	Statistical Display
Seismology	Radar	Tomography
Weather Mapping	Photo Imagery	Isotope Scan
Spectrum Analysis		

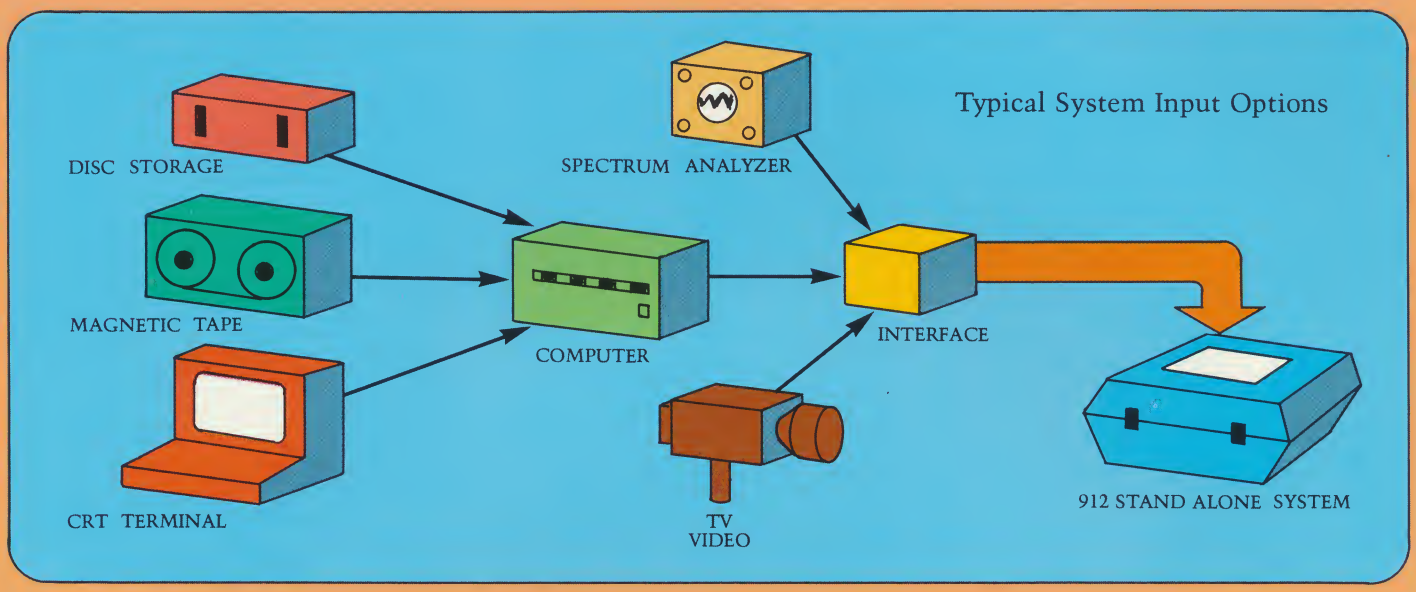
OEM'S NOTE: The CEC 912 is also available as an unpackaged instrument which may be incorporated into suitable OEM systems.







ACTUAL CEC 912 GRAY SCALE PRINTS. These photographic reproductions can only approximate the clarity and resolution of the actual printouts, but are indicative of typical applications and the capabilities of this precision instrument. Through software programming, prints may be enlarged, reduced, inverted (negative print), enhanced, or overlaid with ASCII character notations. Multiple prints may be duplicated across the page with equal ease — and there are numerous other possible variations at your command. Each print is, of course, archival as produced, and no further processing is ever required.



SPECIFICATIONS CEC 912 Gray Scale Printer

Printing Process:	Electrosensitive (Corona discharge).
Picture Elements Per Line:	2048.
Picture Element Separation:	0.005" (0.125 mm).
Picture Resolution (Horiz. & Vert.):	200 dots/inch (80 dots/cm).
Picture Width (Maximum):	10.1" (256 mm).
Gray Scale	
Definition:	16 levels.
Formation:	Dot size.
Printing Speed	
Incremental Advance:	0.005"/stp (0.125 mm/stp).
Max. Increment Rate:	900/sec.
Max. Picture Mode:	24"/min. (60 cm/min.).
Max. Character Mode:	48"/min. (1.2 m/min.).
Max. Character Lines:	300 lines/min.
Paper Information (CEC p/n 465912-0001):	
Type:	Electrosensitive, back grounding.
Width:	11" (280 mm).
Length (Roll):	350' (110 m).
Surface Tone:	Light Gray.
Power Requirements:	115/230 Vac, 50/60 Hz, ≈ 250 watts
Physical Specifications	
Height:	9.48" (241 mm).
Width:	18.93" (481 mm).
Depth:	20.87" (530 mm).
Weight:	55 pounds.
Mounting:	Table-top in case illustrated. Vertical rackmount kit available as optional accessory.

In keeping with Bell & Howell's policy of continuing product improvement, specifications may be changed without notice. Please consult our nearest Sales Office for confirmation and delivery information.

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Printed in U.S.A.